

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB/04235

11/532929

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H03F1/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 344 775 B1 (KURIYAMA YASUHIKO ET AL) 5 February 2002 (2002-02-05)	1-5, 9-11, 15-20
A	column 7, line 1 - column 8, line 20; figure 6 column 9, line 21 - line 25; figure 9	6-8
X	US 2001/013811 A1 (MOROHASHI HIDEO ET AL) 16 August 2001 (2001-08-16) page 2, paragraph 25 - page 3, paragraph 50; figure 1	1, 17, 18
A	EP 0 854 568 A (SONY CORP) 22 July 1998 (1998-07-22) page 8, line 9 - line 37; figure 15	1, 11-14, 17

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

17 December 2003

Date of mailing of the international search report

13/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Tyberghien, G

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP98/04235

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6344775	B1	05-02-2002	JP 2000332124 A	30-11-2000
US 2001013811	A1	16-08-2001	JP 2001196868 A	19-07-2001
EP 0854568	A	22-07-1998	JP 3371151 B2	27-01-2003
			JP 6204757 A	22-07-1994
			JP 3250314 B2	28-01-2002
			JP 6276029 A	30-09-1994
			JP 6283942 A	07-10-1994
			EP 0854570 A2	22-07-1998
			EP 0854568 A2	22-07-1998
			DE 69420981 D1	11-11-1999
			DE 69420981 T2	06-04-2000
			DE 69427311 D1	28-06-2001
			DE 69427311 T2	22-11-2001
			DE 69427378 D1	05-07-2001
			DE 69427378 T2	25-04-2002
			EP 0606094 A2	13-07-1994
			US 5486787 A	23-01-1996
			US 5633610 A	27-05-1997